

# Strong Authentication with Adaptive Authentication

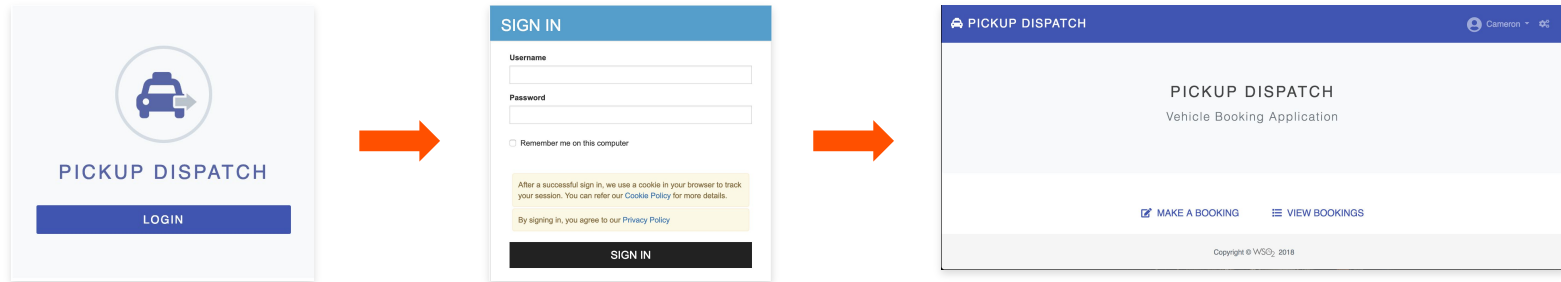


# Authentication



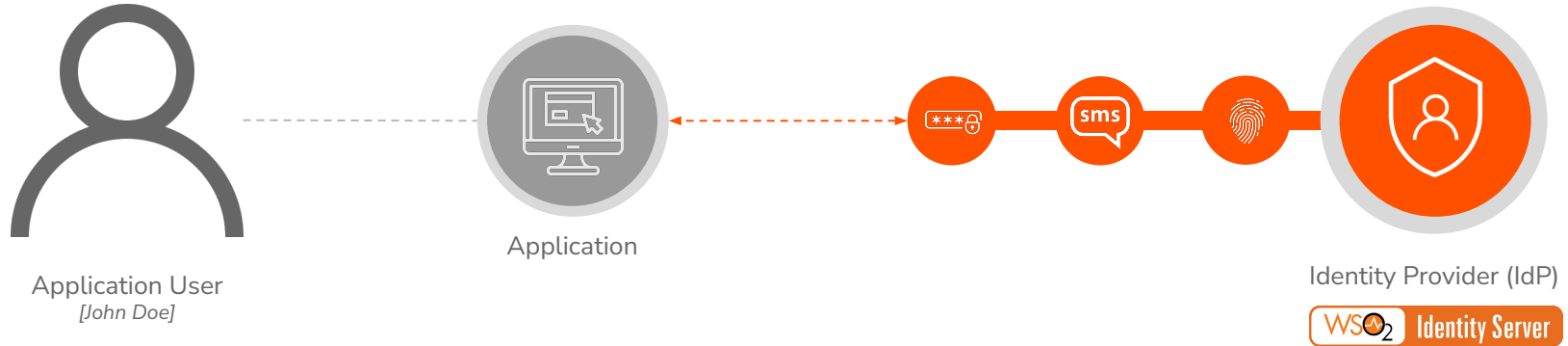
# What is Authentication?

- Authentication is the process used to distinctly identify a certain entity using:
  - **Knowledge factor:** Something the user knows, e.g., password, PIN, and security question.
  - **Ownership factor:** Something the user has, e.g., ATM card, identity card, mobile phone, and security token.
  - **Inherence factor:** Something the user is/does, i.e., biometrics.



# Authentication Mechanisms Based on the Number of Factors

Authenticating users by challenging with multiple authentication steps



# Convenience and Security in Multi-Factor Authentication

What to prioritize



# Adaptive Authentication



# What is Adaptive Authentication

Adjusting the authentication strength based on the user's risk profile and behaviour.



# Decision Factors

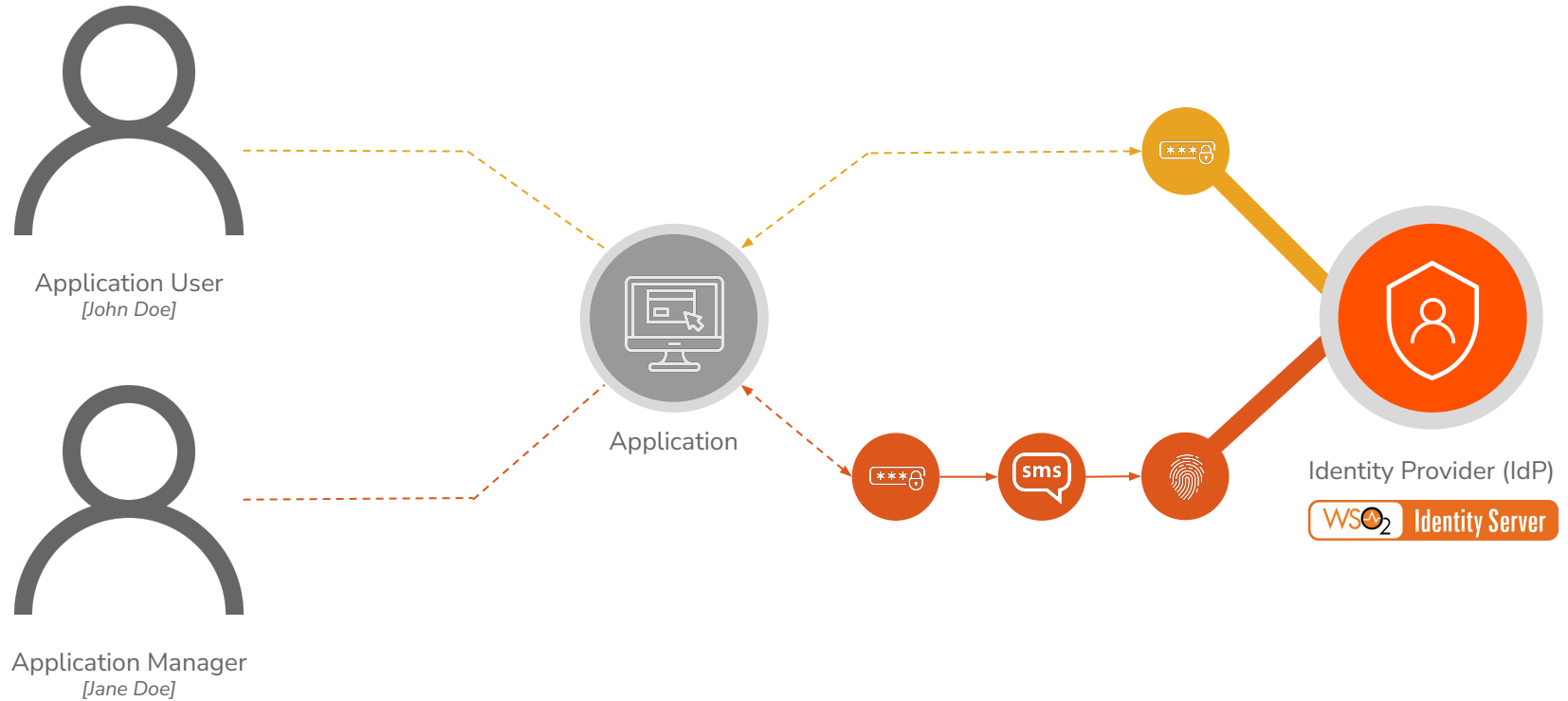
- Request or environment factors
- User attributes and roles
- The required level of assurance (LoA)
- User behavior
- Analytics and machine learning
- And more ...



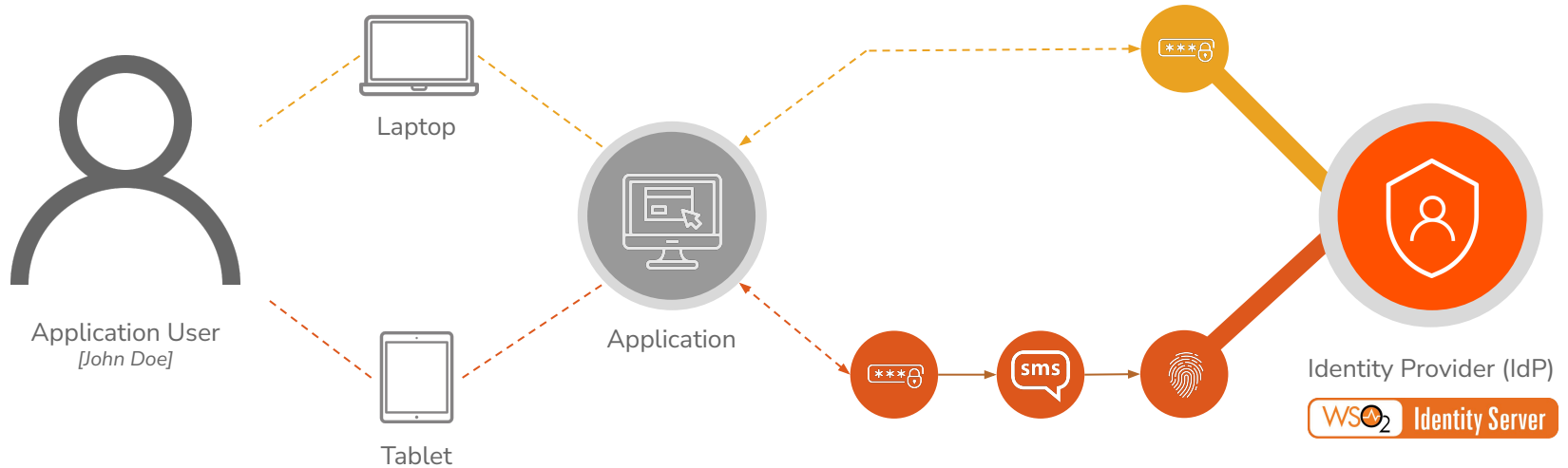
# Adaptive Authentication Scenarios



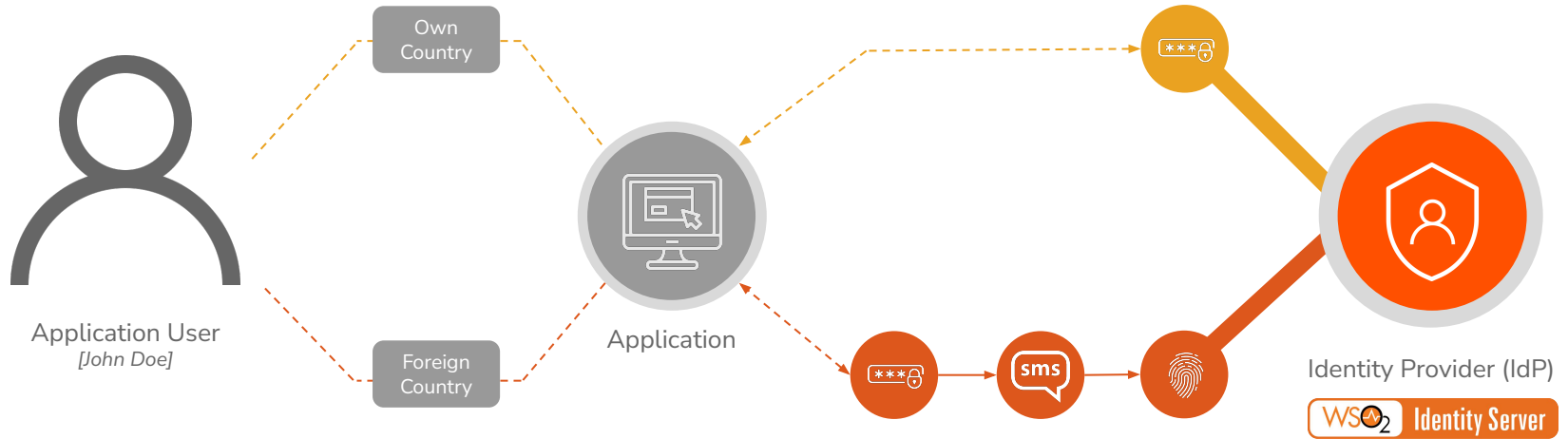
# Role-Based Adaptive Authentication



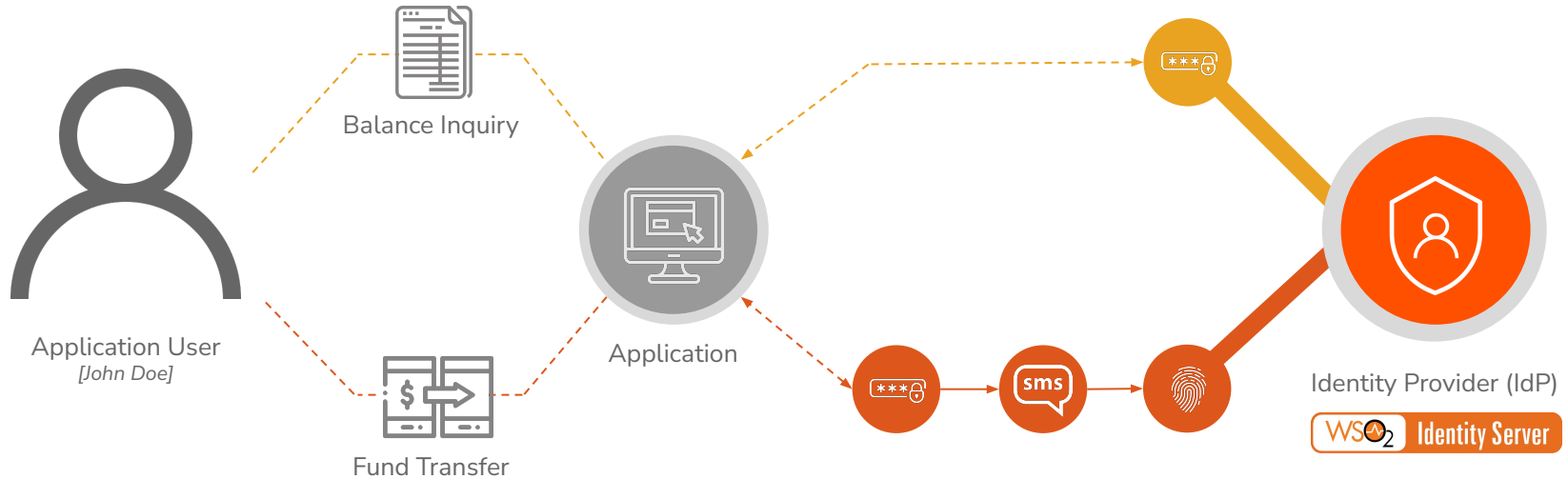
# Device-Based Adaptive Authentication



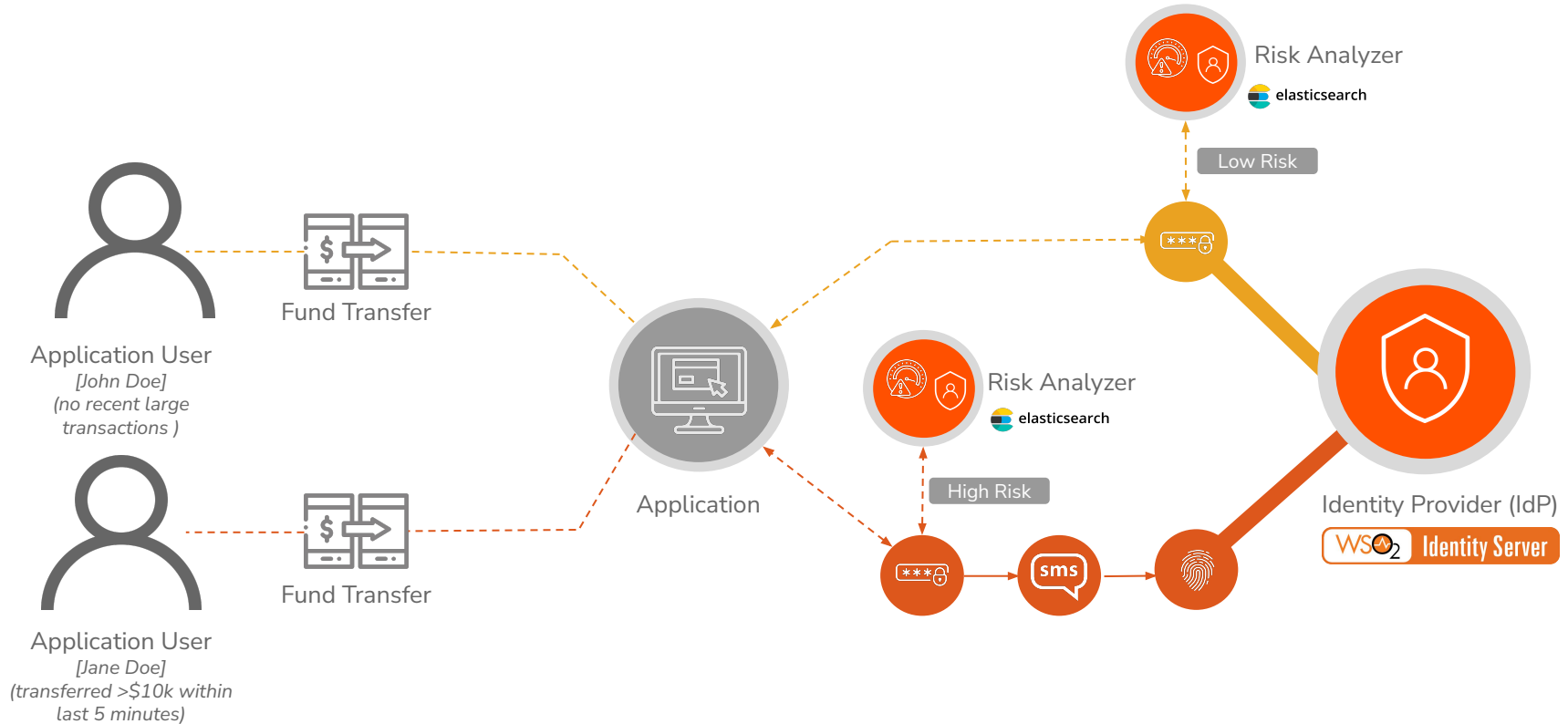
# IP-Based or Location-Based Adaptive Authentication



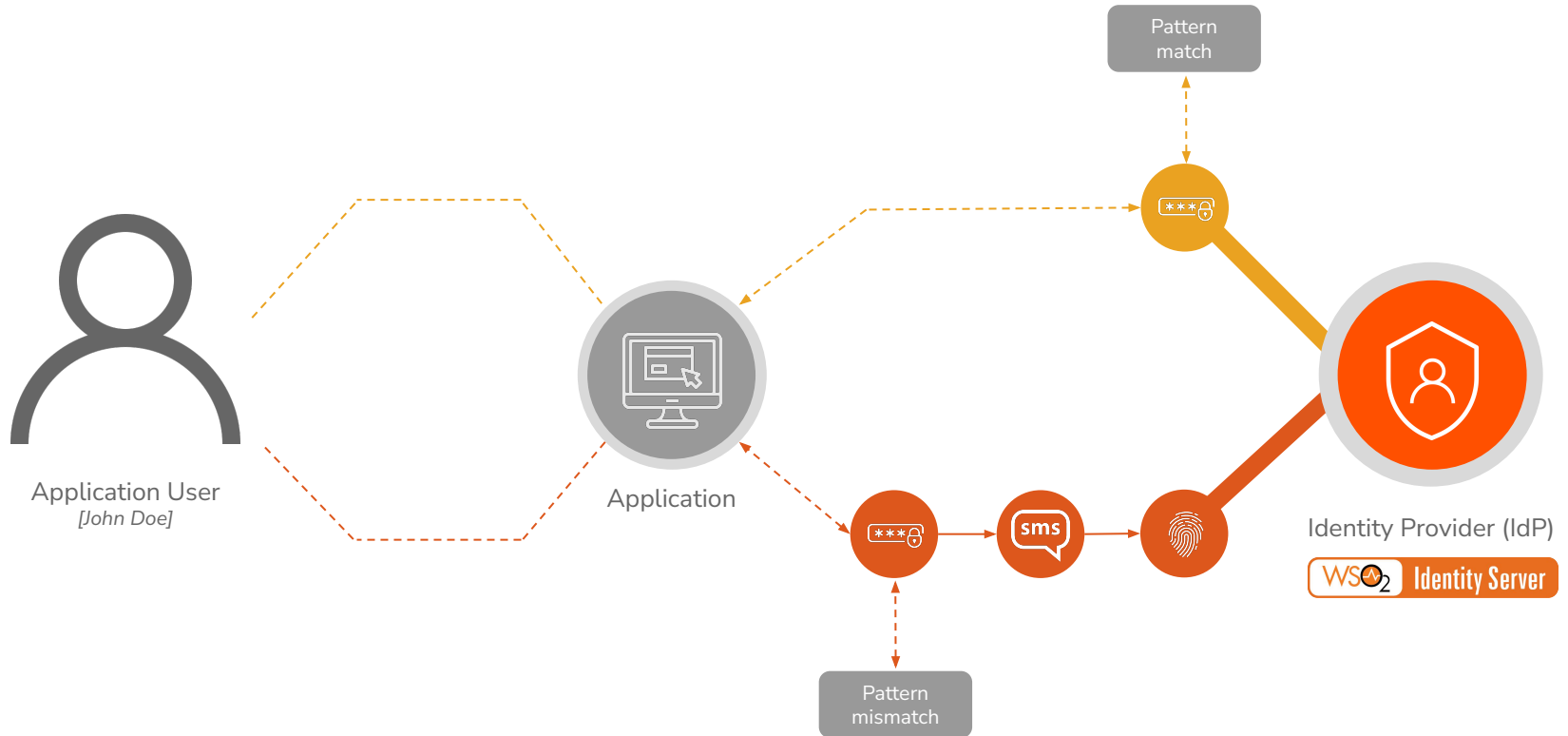
# ACR-Based Adaptive Authentication



# ELK Analytics-Based Adaptive Authentication



# TypingDNA-based Adaptive Authentication



# Quick Recap







# What you learnt

1. About authentication
2. Benefits of using adaptive authentication
3. Adaptive authentication decision factors
4. Adaptive authentication scenarios

# Any Questions ?

Reach us through the following channels

✉ [iam-dev@wso2.org](mailto:iam-dev@wso2.org)

📄 <https://stackoverflow.com/questions/tagged/wso2-identity-server>

🗯 <https://discord.com/invite/Xa5VubmThw>

# Thanks!



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